

MARINE GEOPHYSICAL AND GEOLOGICAL SURVEYS OF THE FRASER DELTA SLOPE AND ADJACENT STRAIT OF GEORGIA: 1991 GEOPHYSICAL SURVEY TRACKLINES AND 1983-1992 CORE LOCATIONS

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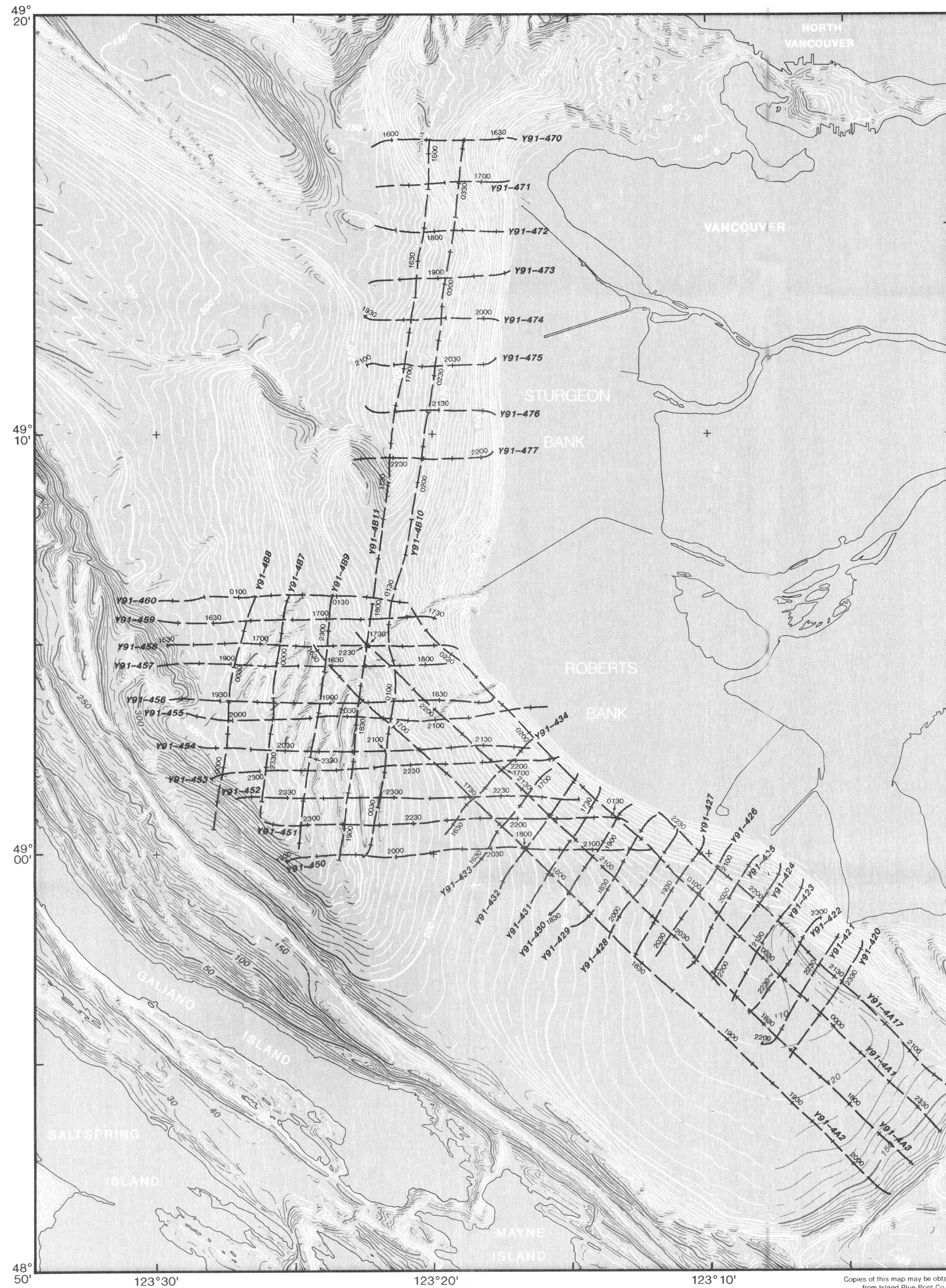
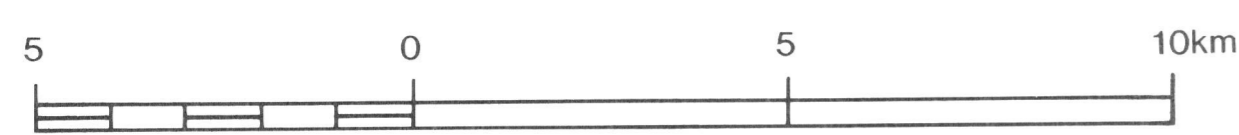
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This map illustrates the grid of approximately 460 km of airgun seismic lines that were shot during cruise PGC91-08 (C.S.S. Young, November 20-28, 1992). Survey parameters were selected to obtain the best possible resolution of the structure of the upper portion of the sediment column where it was obscured (primarily by interstitial gas) on Huntex records from surveys PGC91-01 and PGC91-04. Three main portions of the delta were of interest: a) the Sturgeon Bank slope, b) the Roberts Bank slope, and c) the "Foreslope Hills" area in the axial portion of the Strait of Georgia. The seismic source was a 82 cm³ (5 in³) airgun fired at 1 second intervals. Combined with an average survey speed of 5 knots, this firing rate provided a nominal shot spacing of 2.5 m. Hydrophones employed included 7.6 m Benthos and Nova Scotia Research Foundation streamers, and a 30 m array built at the Pacific Geoscience Centre. Seismic data logging was done simultaneously on an EPC 9701 thermal recorder and an EPC 4800 recorder. Digital logging was done on a 9 track recorder (with data acquisition software developed at PGC) and a GeoAcoustics SE880 system. The low pass filter was typically set at 100 Hz, with the high-pass filter set at 2 - 5 kHz. Navigation data were collected with Internav 408 Loran C and Trimble Pathfinder GPS receivers.

- Airgun single channel seismic profiler
- P91-A5 Vessel, year-line number
- 0000 Time (GMT)
- Vessel Abbreviation
- Y R.B. Young

Cartography by B. Sawyer and R. Franklin
Transverse Mercator Projection



Copies of this map may be obtained from Island Blue Print Co. Ltd., 905 Fort Street, Victoria, B.C. V8V 3K3